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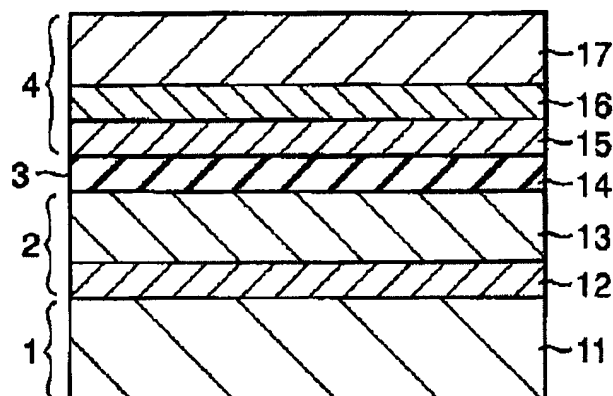
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TITLE : SPIN VALVE TRANSISTOR



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a spin valve transistor that has a large current gain and superior stability in output.

**SOLUTION:** The spin valve transistor has a collector region 1 made of a semiconductor, a base region 2 having a first ferromagnetic body layer 12 where a magnetization direction is changed according to the direction of an external magnetic field, a barrier layer 3 made of an insulator formed on the base region 2 or the semiconductor, and an emitter region 4 having a second ferromagnetic body layer 15 where the magnetization direction is fixed.

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